# STATE OF MISSOURI

# **DEPARTMENT OF NATURAL RESOURCES**

# MISSOURI CLEAN WATER COMMISSION



# MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92<sup>nd</sup> Congress) as amended,

300 Celeware Avenue, Wilmington, DE 19801

MO-0112950

ISP Chemco, Inc.

Permit No.

Owner:

Address:

Expiration Date MO 780-0041 (10-93)

Continuing Authority: Address:	Same as below Same as below
Facility Name: Facility Address:	ISP Minerals, Inc. #1 Hillcrest Drive, Annapolis, MO 63620
Legal Description: Latitude/Longitude:	NE ¼, Sec. 22, T31N, R3E, Iron County See page 2
Receiving Stream: First Classified Stream and ID: USGS Basin & Sub-watershed No.:	Unnamed Tributary to Big Creek (U) Big Creek (P) (02916) (08020202-040003)
is authorized to discharge from the faci as set forth herein:	ility described herein, in accordance with the effluent limitations and monitoring requirements
FACILITY DESCRIPTION:	
See page 2	
	r discharges under the Missouri Clean Water Law and the National Pollutant Discharge to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of
March 8, 2002 Effective Date	Stephen M. Mahford, Director, Department of Natural Resources Executive Secretary, Clean Water Commission
Moreh 7, 2007	

Interim Director of Staff, Clean Water Commission

### FACILITY DESCRIPTION (continued)

Outfall #001 - Stone Crushing/Washing - SIC #3299/1423/1429/1499
Stormwater and process water runoff from quarry area and other plant areas. Flow is dependent on quarry stormwater pumping and other stormwater flow.

Design flow is 187,000 gallons per day.
Latitude/Longitude: +3721210/-09042010

Outfall #002 - Stone Crushing/Washing - SIC#3299/1423/1429/1499 Rock dike emergency overflow from process water settling pond, and quarry. Latitude/Longitude: +3721240/-09041130

#### Instream monitoring points BC-1, BC-2, and BC-3.

Instream monitoring points chosen to monitor for total suspended solids before ISP's influence on Big Creek (BC-1), after the influence of the sewage lagoon (BC-2), and after the perculation of ISP's settling basin (BC-3). See attached map.

#### A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

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PERMIT NUMBER MO-0112950

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

		FINAL EFFLUENT LIMITATIONS		ITATIONS	MONITORING REQUIREMENTS			
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE		
Outfall #001 Rainfall	inches	*		*	once/day	24 hr. total		
Flow	MGD	*		*	once/month	24 hr. estimate		
Oil & Grease	mg/L	15		10	once/month	grab		
Wet Weather Only Settleable Solids	ml/L/hr	1.5		1.0	once/month	grab		
Dry Weather Only Total Suspended Solids	mg/L	80		60	once/month	grab		
pH - Units	SU	**		**	once/month	grab		
Outfall #002 - Emergency Discharge								
Total Suspended Solids	mg/L	*		*	once/event/day	grab		
Settleable Solids	mL/L/hr	*		*	once/event/day	grab		
Monitoring Points BC-1, BC-2 & BC-3 - As depicted in the map on page 6 of 6								
Total Suspended Solids	mg/L	*		*	once/quarter***	grab		

MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE July 28, 2002. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

#### **B. STANDARD CONDITIONS**

IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED  $\underline{\texttt{Part}}$   $\underline{\texttt{I}}$  STANDARD CONDITIONS DATED  $\underline{\texttt{October}}$  1, 1980, AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.

MO 780-0010 (8/91)

#### A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- \* Monitoring requirement only.
- \*\* pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.
- \*\*\* Sample once per quarter in the months of March, June, September, and December.

#### C. SPECIAL CONDITIONS

- 1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
  - (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
    - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
    - (2) controls any pollutant not limited in the permit.
  - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
  - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

- 2. All outfalls must be clearly marked in the field.
- 3. Permittee will cease discharge by connection to areawide wastewater treatment system within 90 days of notice of its availability.
- 4. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
  - (1) One hundred micrograms per liter (100 μg/L);
  - (2) Two hundred micrograms per liter (200  $\mu g/L$ ) for acrolein and acrylonitrile; five hundred micrograms per liter (500  $\mu g/L$ ) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
  - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
  - (4) The level established in Part A of the permit by the Director.
- (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.
- 5. Report as no-discharge when a discharge does not occur during the report period.

#### C. SPECIAL CONDITIONS (continued)

- 6. General Criteria. The following water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
  - (a) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
  - (b) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
  - (c) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
  - (d) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
  - (e) There shall be no significant human health hazard from incidental contact with the water;
  - (f) There shall be no acute toxicity to livestock or wildlife watering;
  - (g) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
  - (h) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

